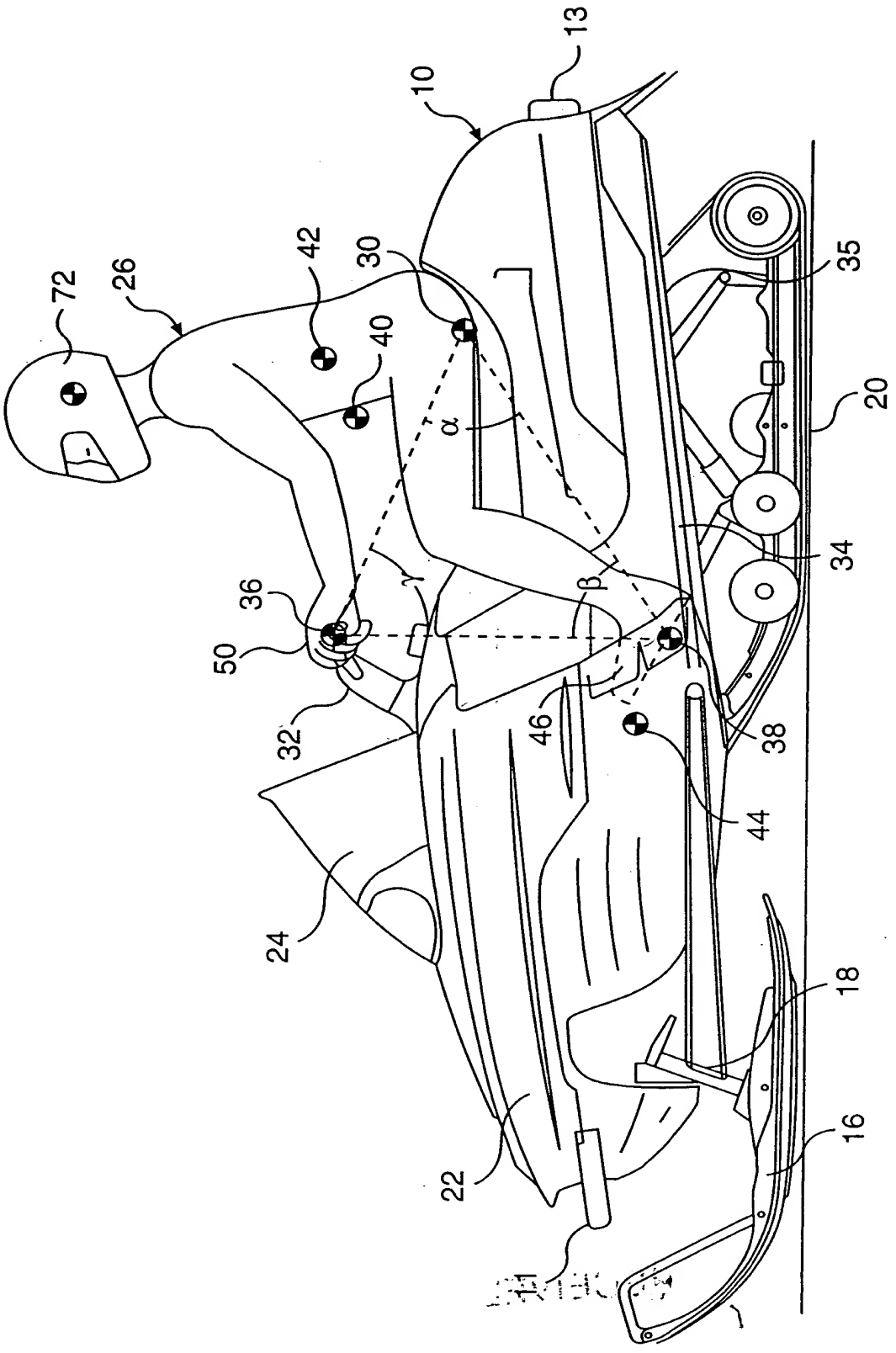
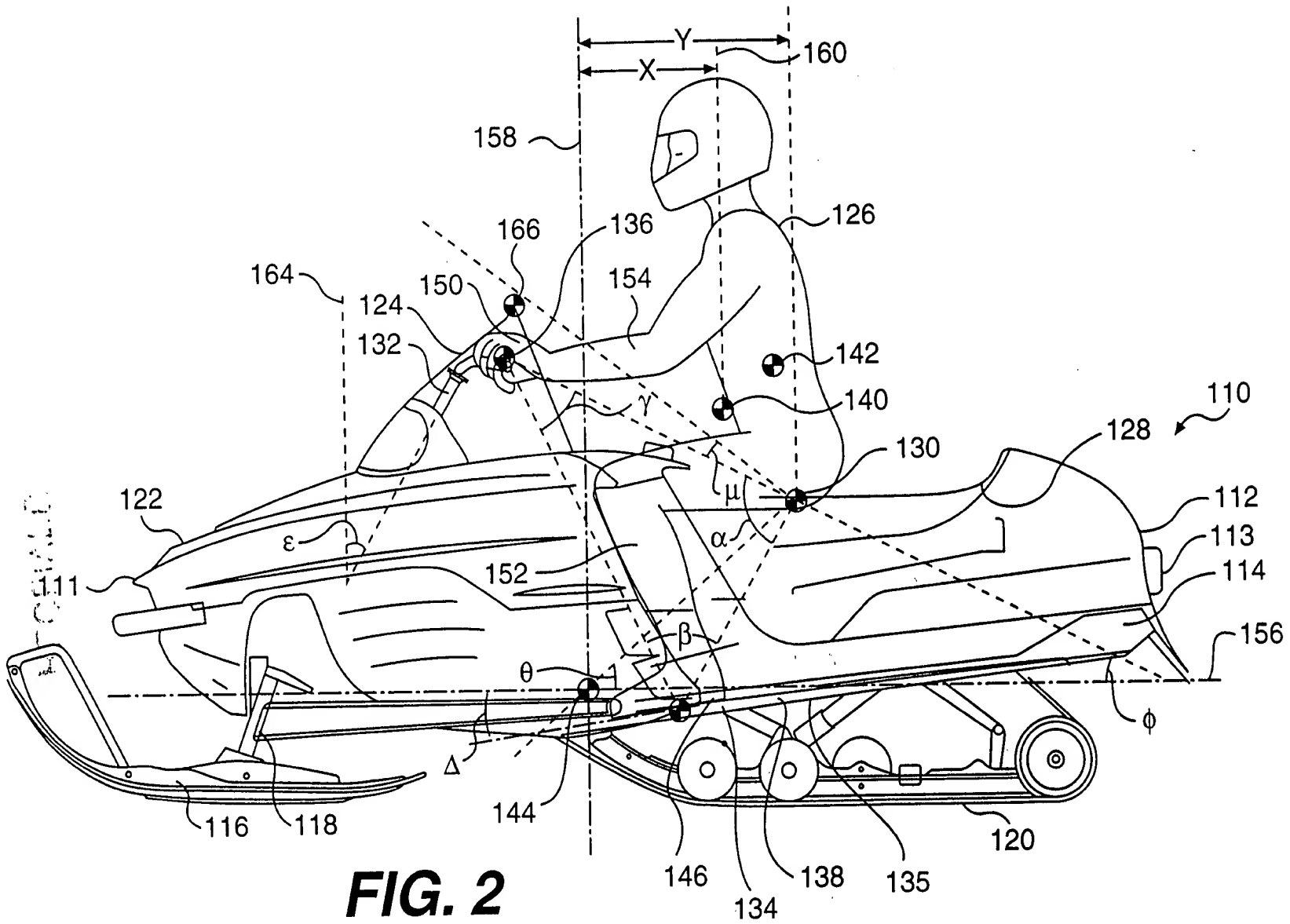


FIG. 1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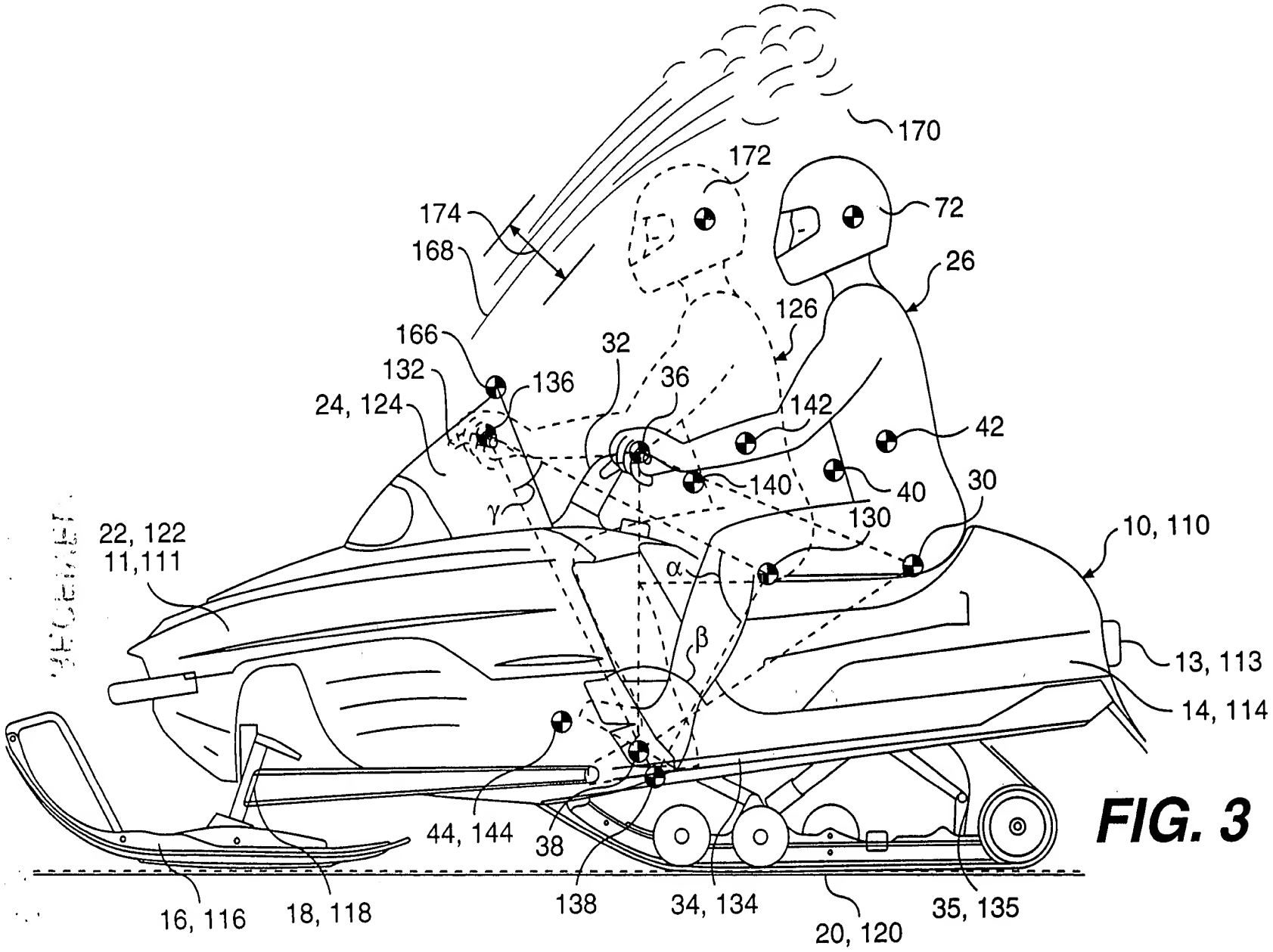
X
160
158
126
166
136
164
150
154
124
132
142
140
γ
110
128
130
μ
122
112
ε
α
113
111
152
114
β
156
θ
Δ
φ
116
118
144
120
146
138
135
134

FIG. 2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72
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36
24, 124
142
42
140
40
30
γ
130
22, 122
11,111
10, 110
α
β
13, 113
14, 114
44, 144
38
16, 116
18, 118
138
34, 134
20, 120
35, 135

FIG. 3

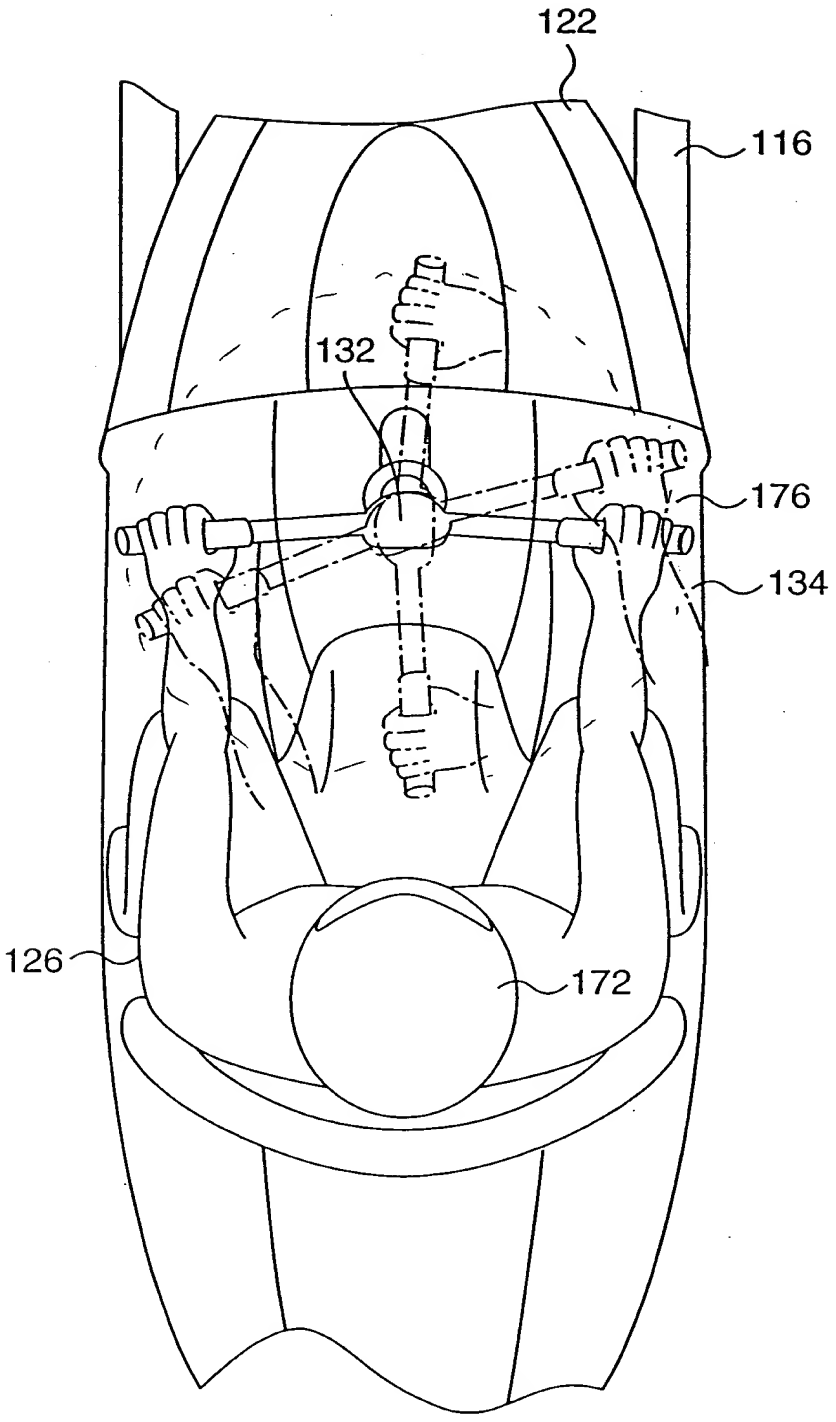
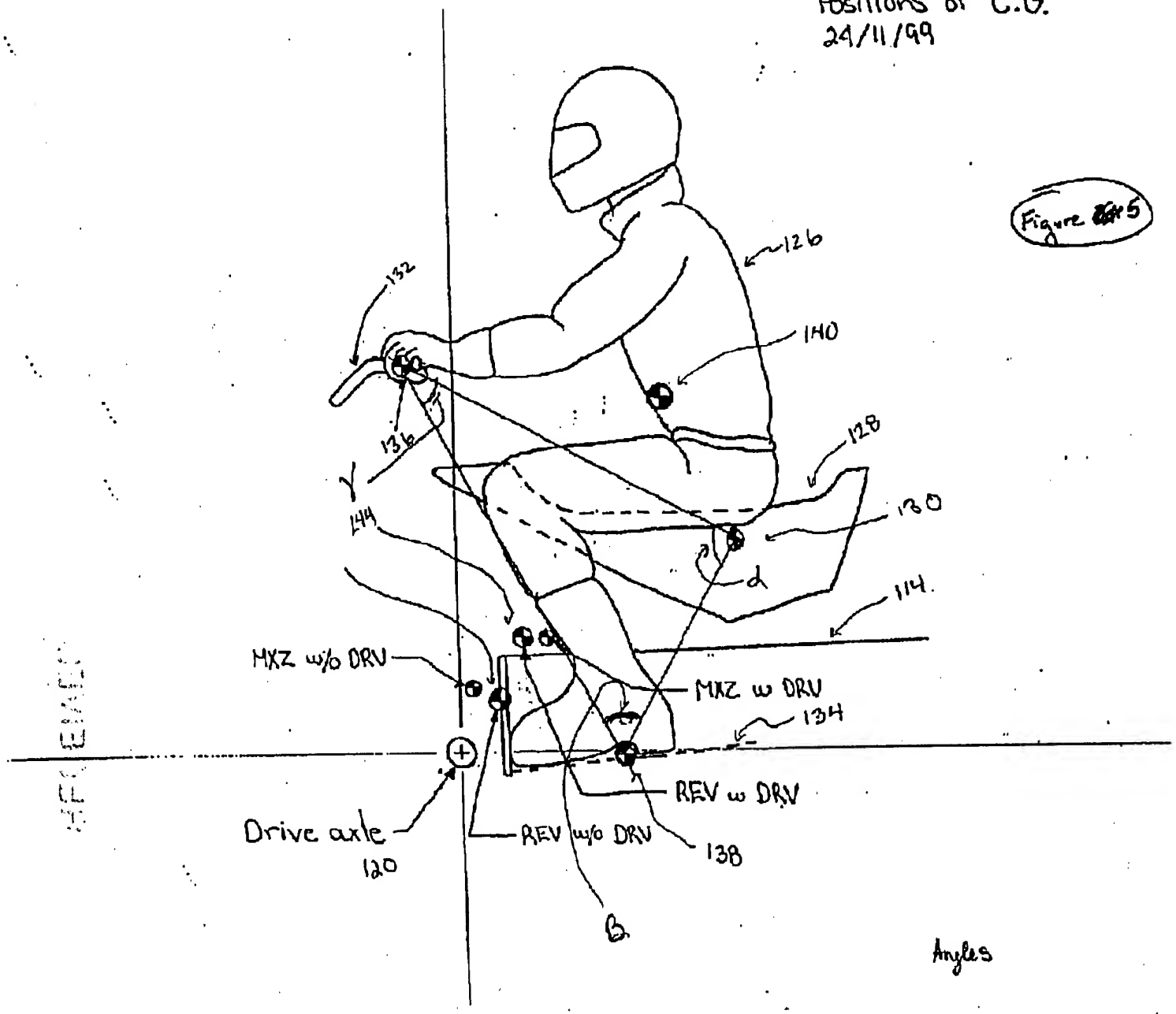


FIG. 4

Positions of C.G.
24/11/99

Figure 5



Positions of C.G.
24/11/99

Fig 6

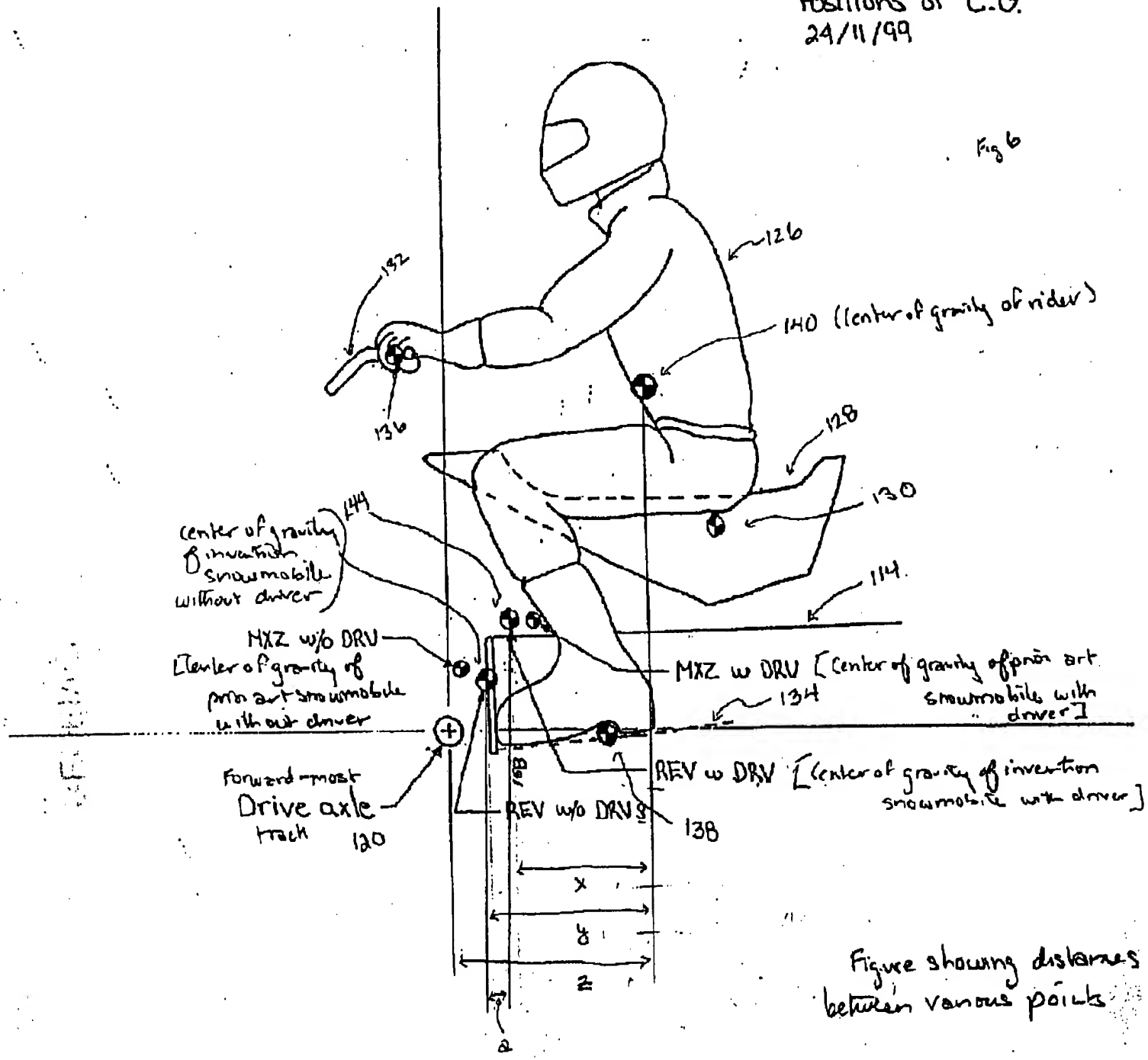


Figure showing distances between various points

Positions of C.G.
24/11/99

Fig 7

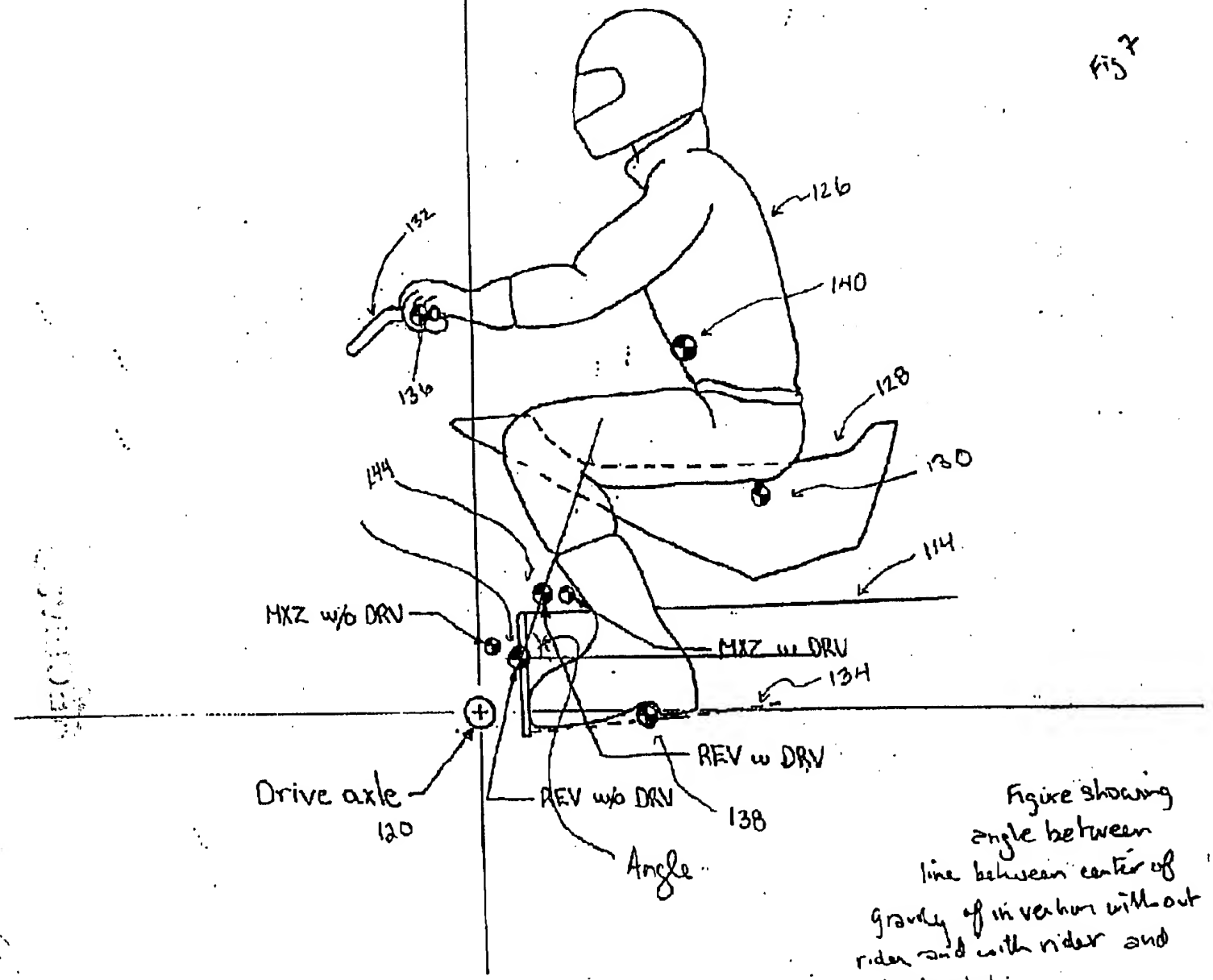


Figure showing angle between line between center of gravity of individual with out rider and with rider and horizontal

Positions of C.G.
29/11/99

Fig 8

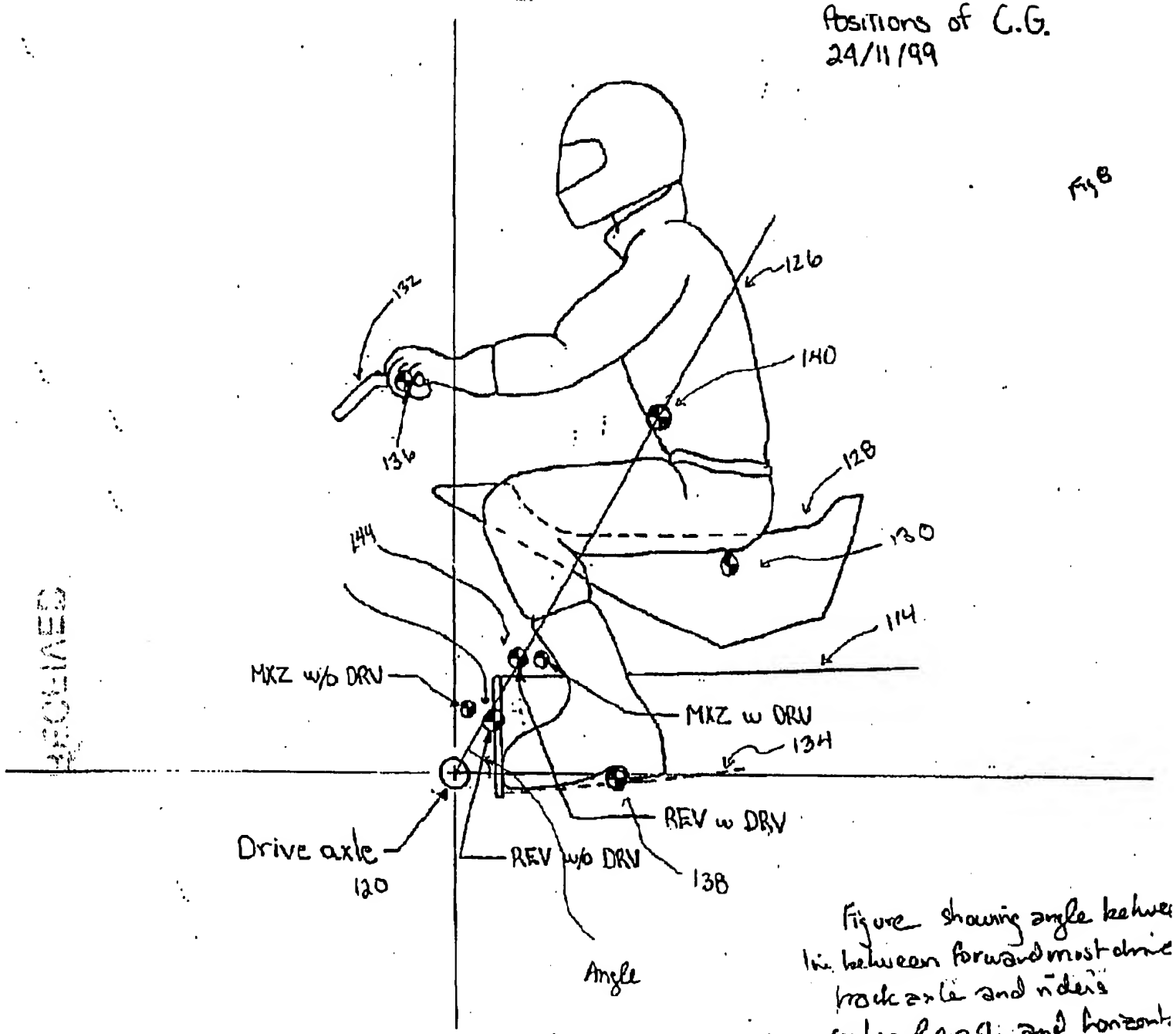


Figure showing angle between forwardmost drive track axle and rider's center of gravity and horizont

Positions of C.G.
24/11/99

Fig 9

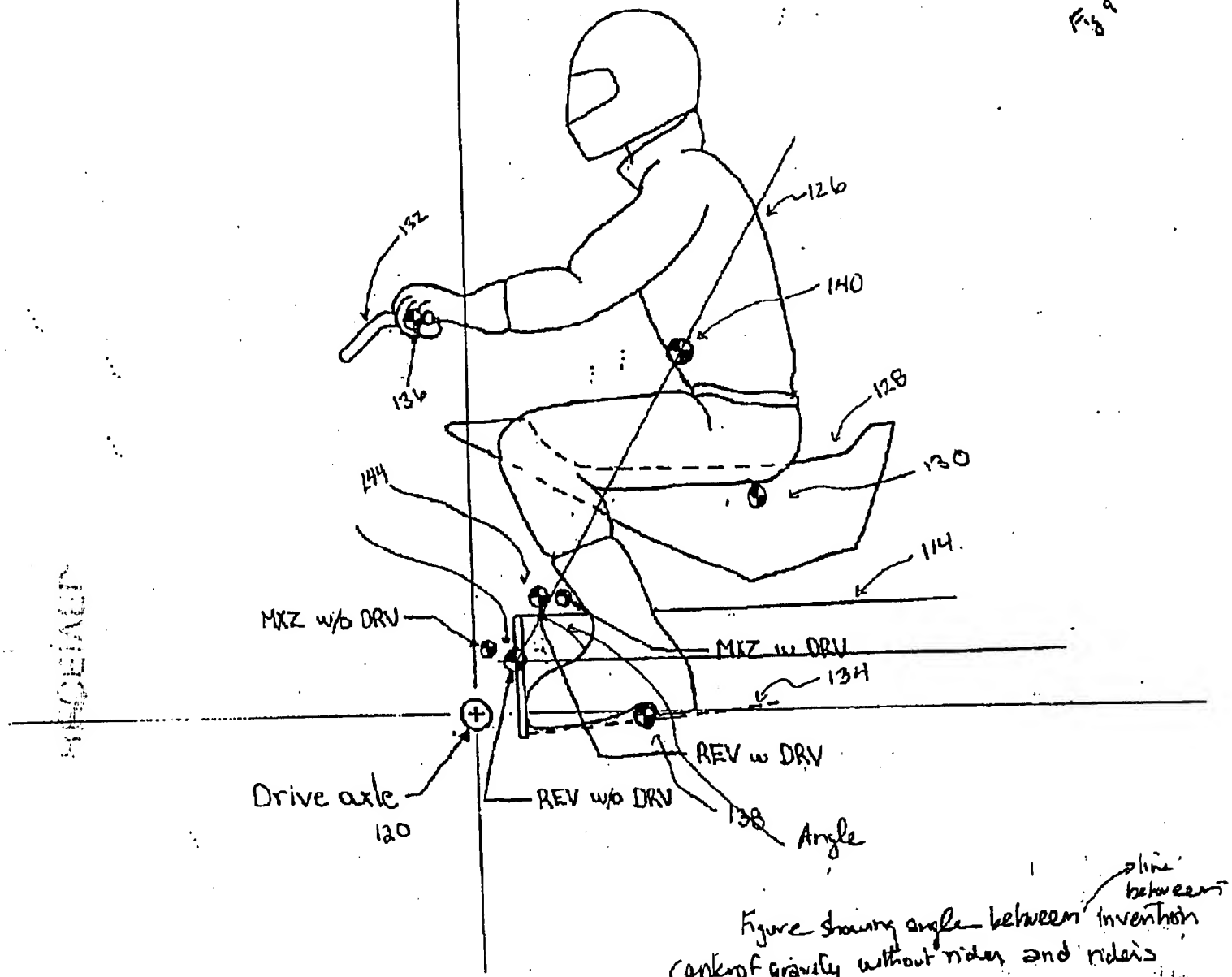


Figure showing angle between invention's line between center of gravity without rider and rider's center of gravity and horizontal.

Positions of C.G.
24/11/99

Fig 10

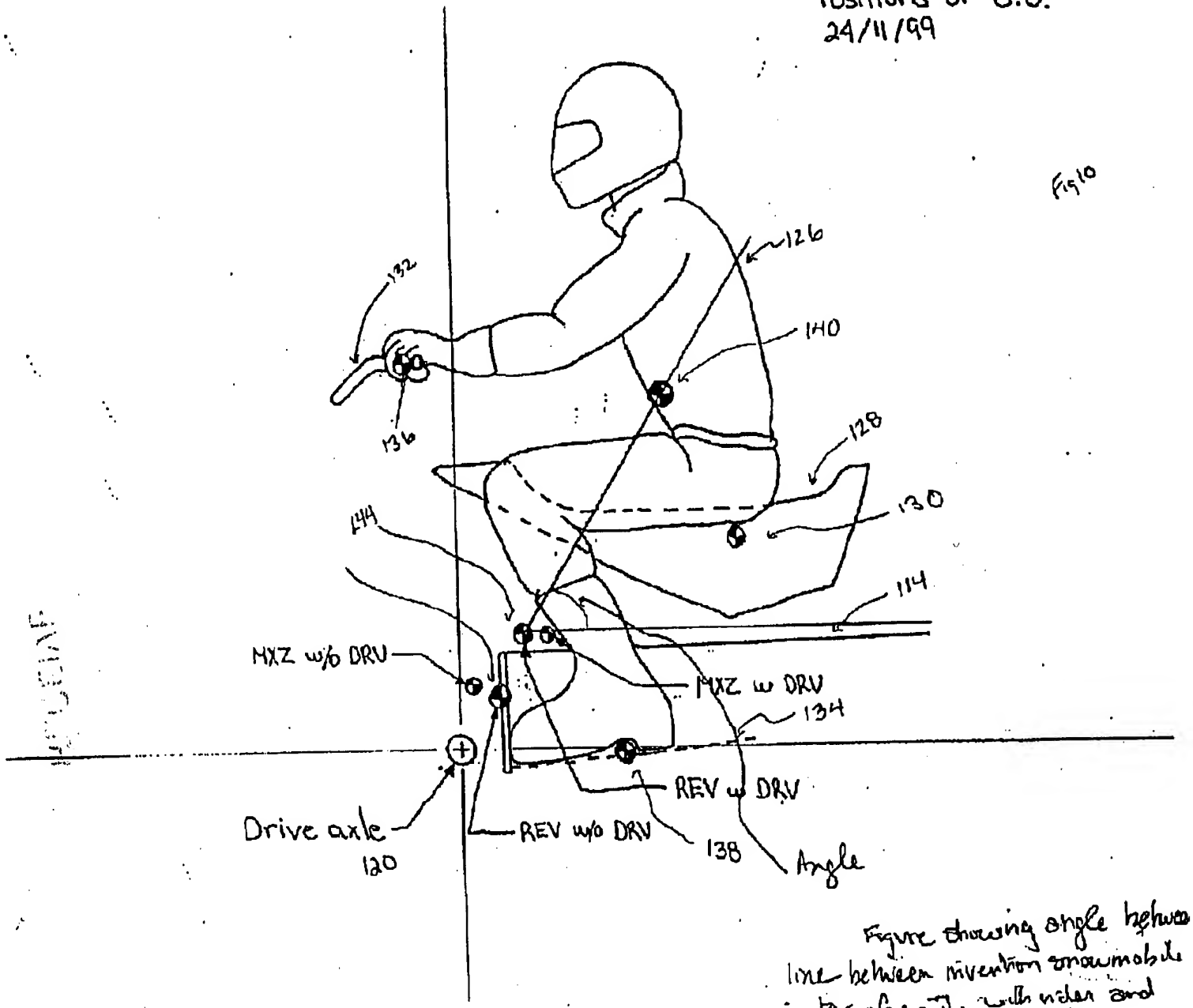


Figure showing angle between line between riverton snowmobile center of gravity with rider and rider's center of gravity and horizontal

Positions of C.G.
24/11/99

Fig 11

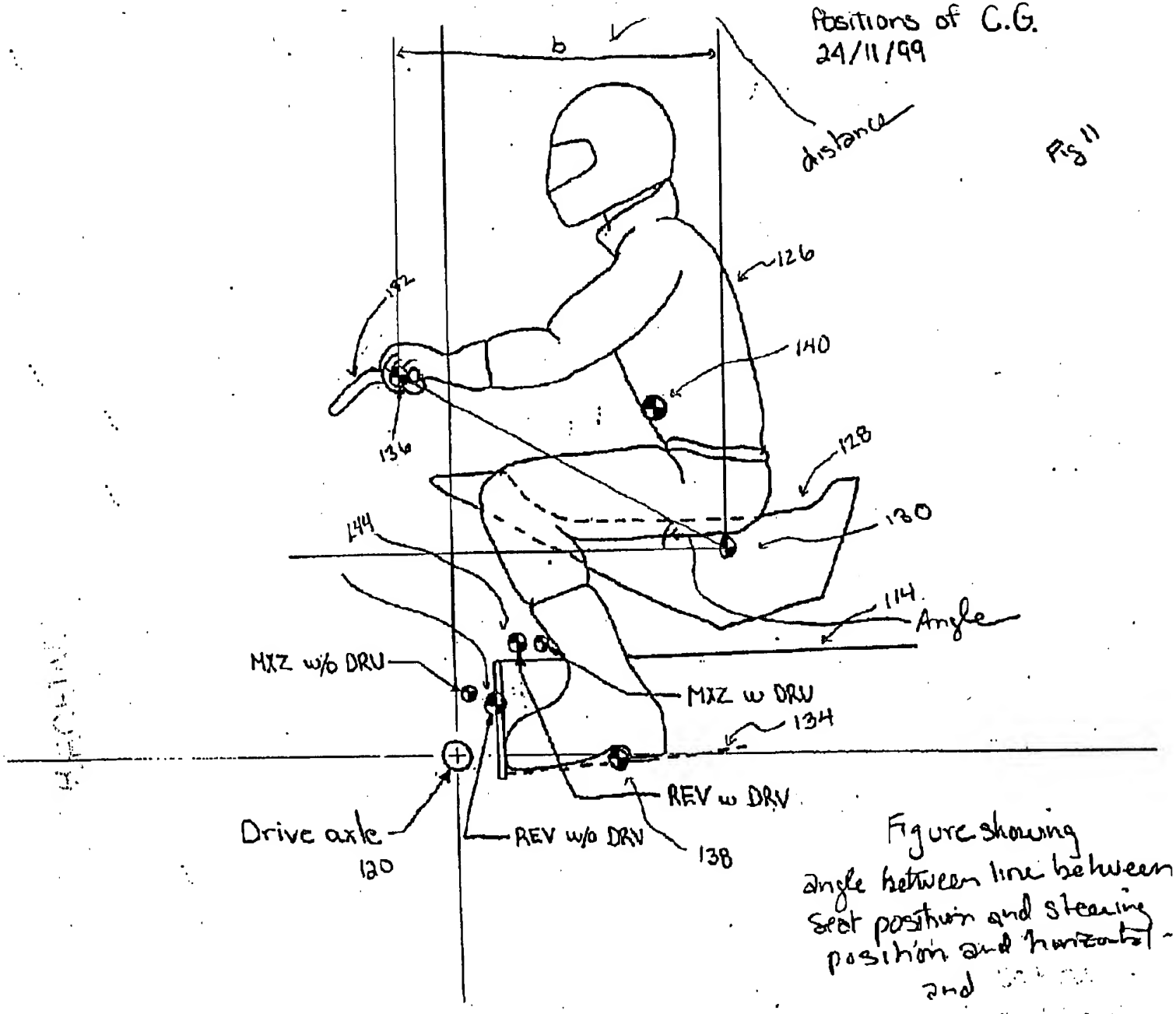


Figure showing
angle between line between
seat position and steering
position and horizontal -
and
distance between
steering position and seating
position

Positions of C.G.
24/11/99

Fig 12

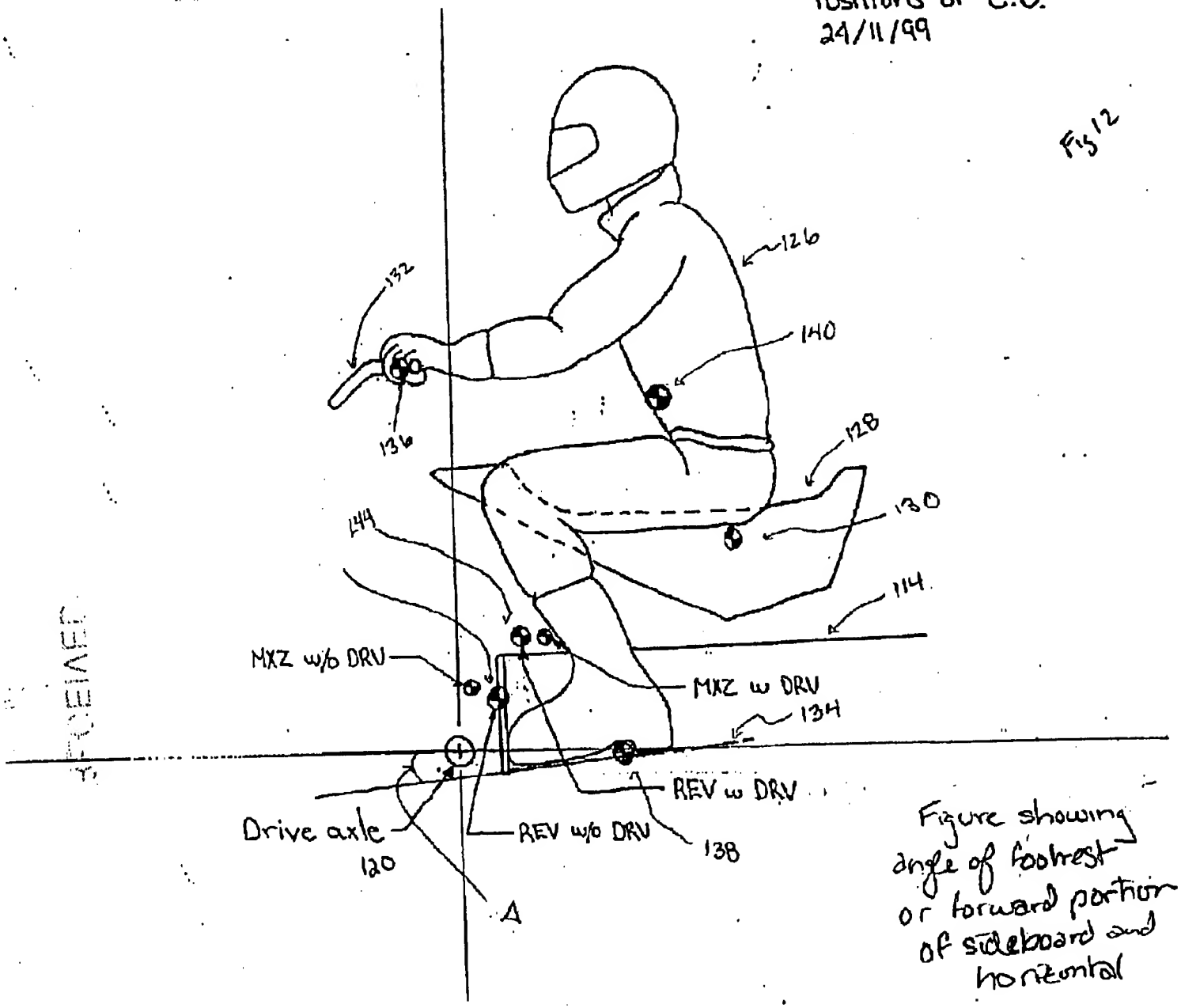


Figure showing angle of footrest or forward portion of sideboard and horizontal

Positions of C.G.
24/11/99

Fig 13

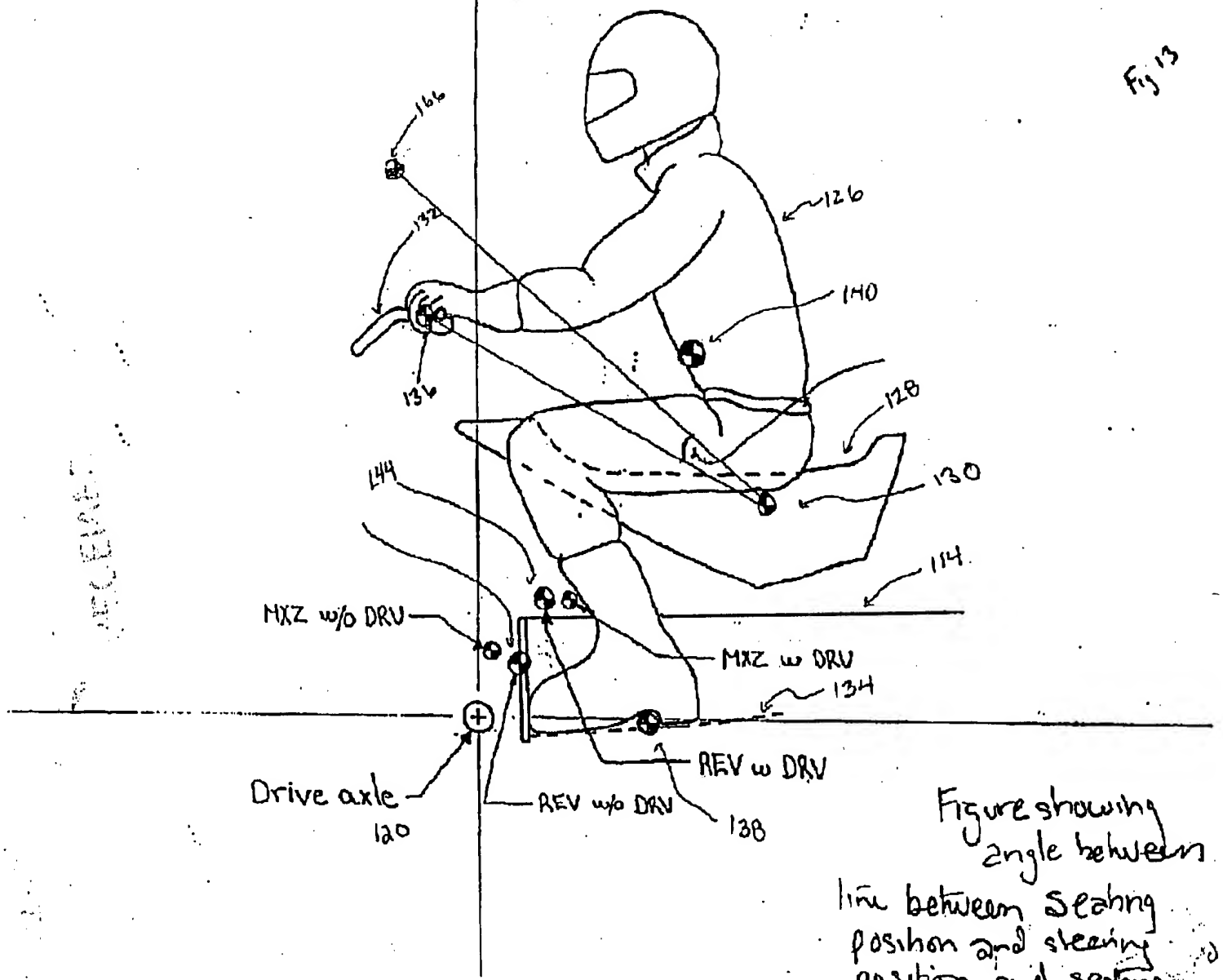


Figure showing angle between line between seating position and steering position and seating position and top of windshield.

Positions of C.G.
24/11/99

Fig 14

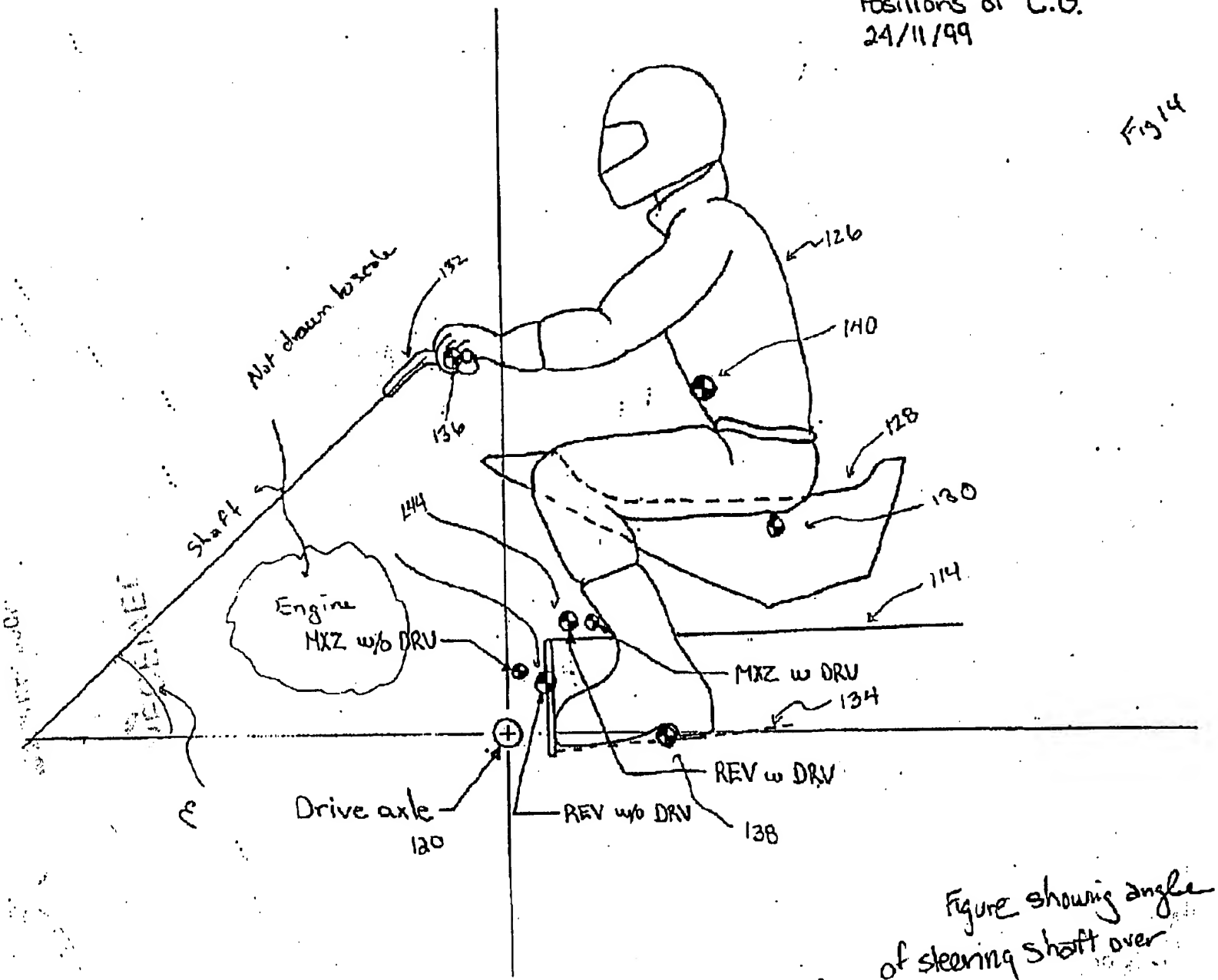


Figure showing angle of steering shaft over engine

Pretered driving position

Fig. 15

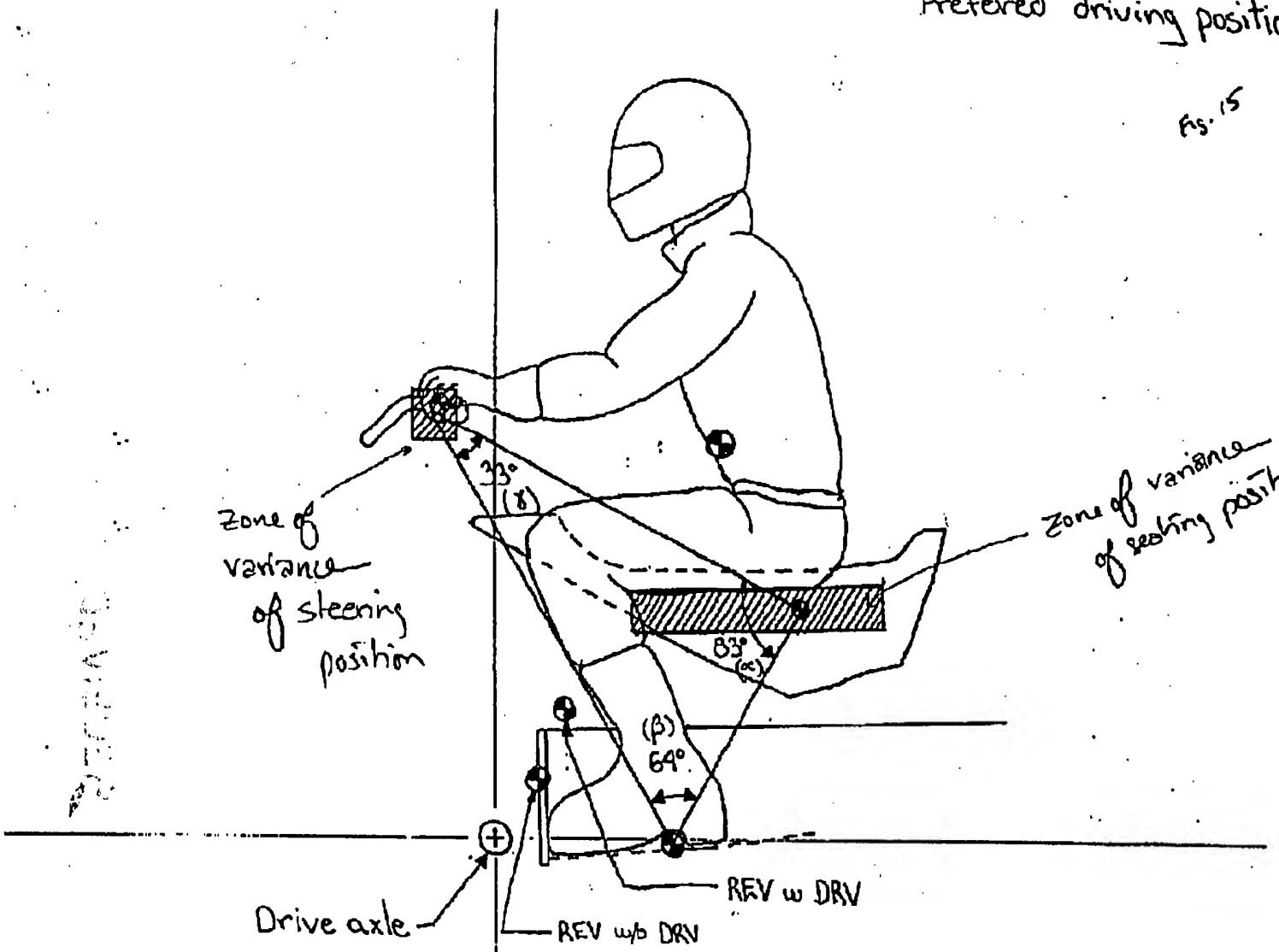
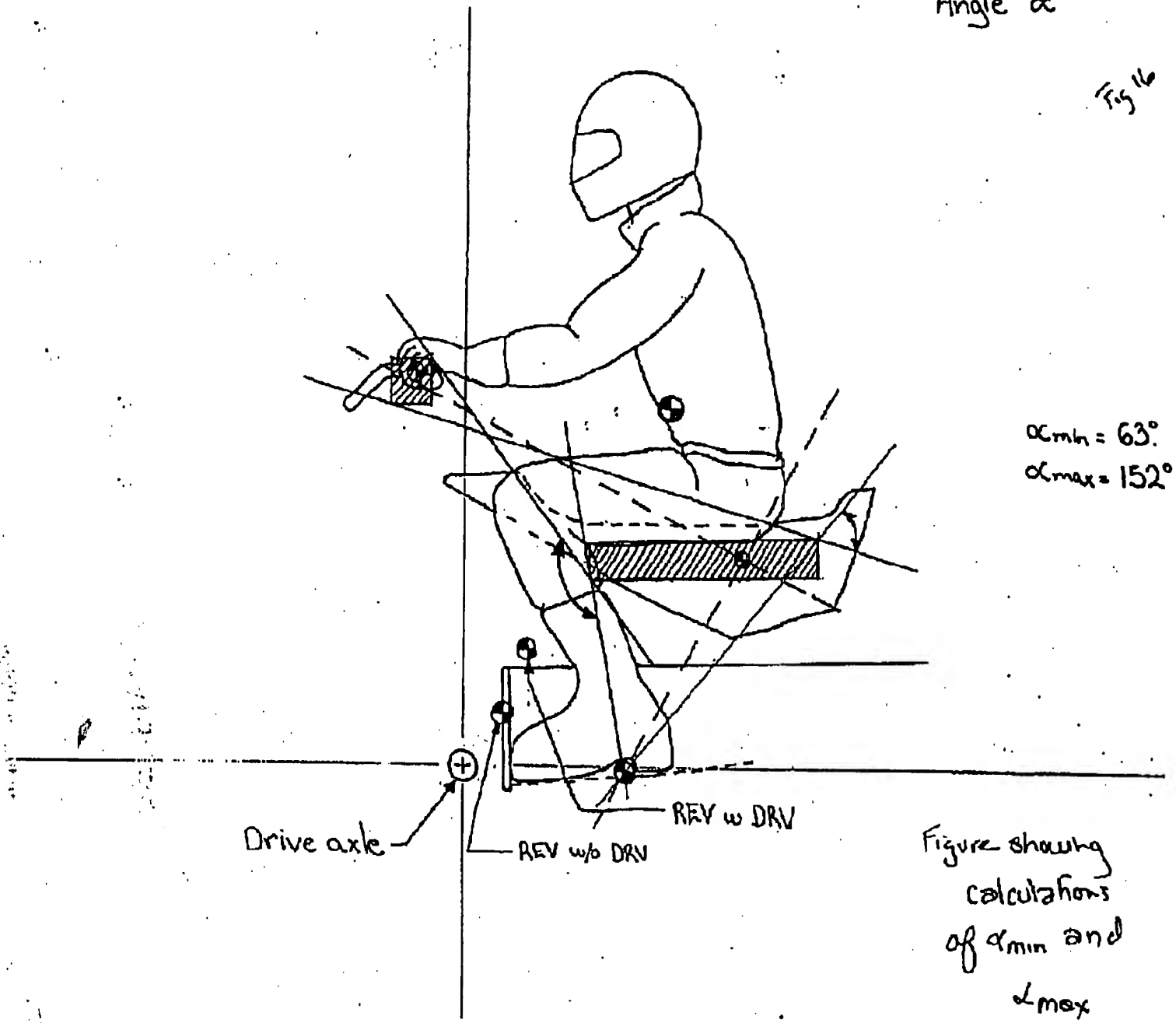


Figure showing

Zones of variance of seating and steering positions

Angle α

Fig 16



$\alpha_{min} = 63°$

$\alpha_{max} = 152°$

Figure showing calculations of α_{min} and α_{max}

Angle β

Fig 17

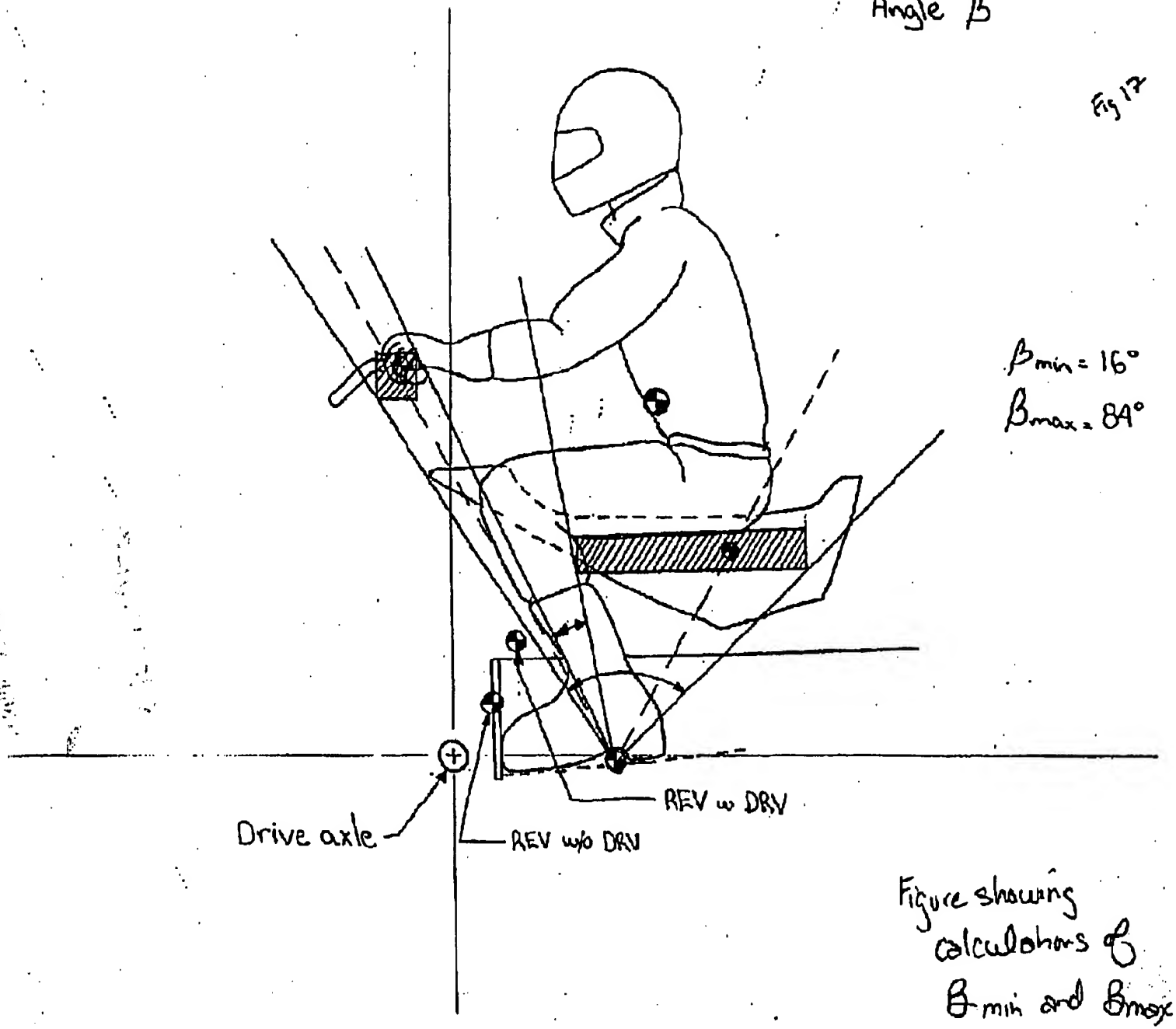
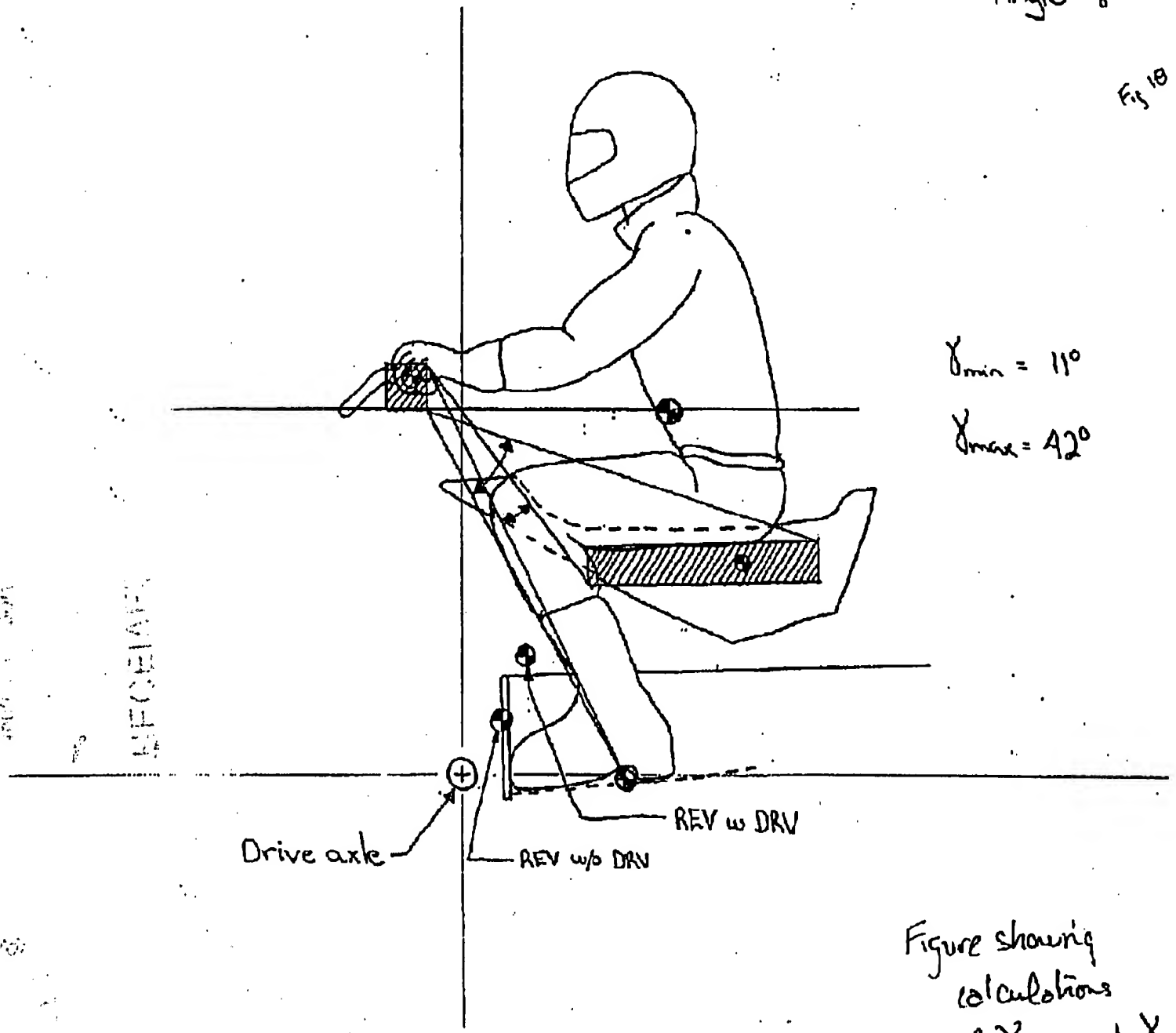


Figure showing calculations of β_{min} and β_{max}

Angle γ

Fig 18

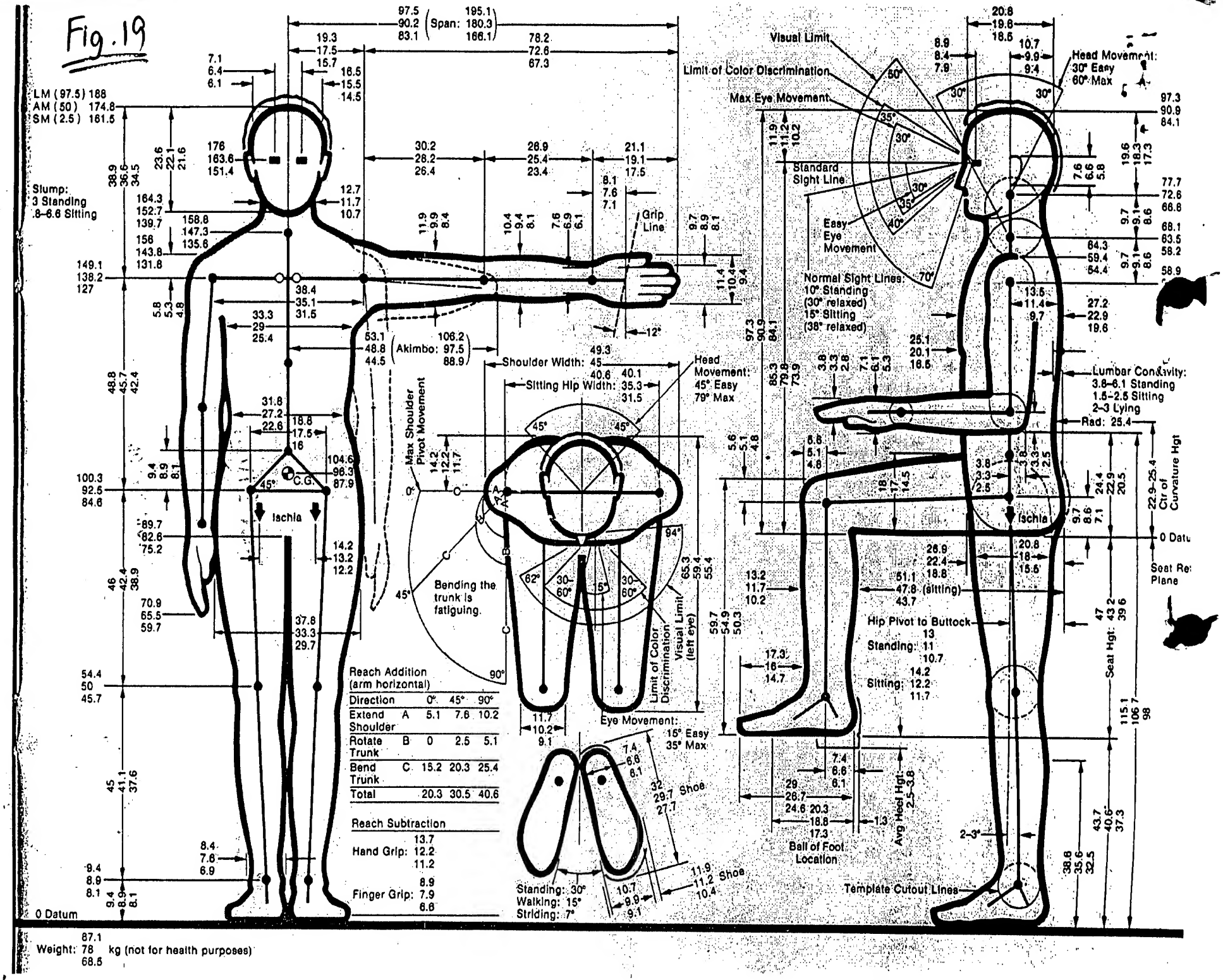


$\gamma_{min} = 11°$

$\gamma_{max} = 42°$

Figure showing calculations of γ_{min} and γ_{max}

Fig. 19



Reach Addition (arm horizontal)				
Direction		0°	45°	90°
Extend Shoulder	A	5.1	7.6	10.2
Rotate Trunk	B	0	2.5	5.1
Bend Trunk	C	15.2	20.3	25.4
Total		20.3	30.5	40.6

Reach Subtraction	
Hand Grip:	13.7 12.2 11.2
Finger Grip:	8.9 7.9 6.6